TITUSVILLE AMATEUR RADIO CLUB NEWSLETTER

DECEMBER, 2000

PRESIDENT'S CORNER

By Bud Hughes K4CWG

Our congratulations and thanks to the Titusville Jaycees for another job well done in putting on the annual Titusville Christmas Parade. As in past years, TARC played a major roll in assisting the Jaycees in this year's special event. The Jaycees have expressed and requested that each and every TARC member be thanked for the hard work they put into this year's parade. Our club was represented by 20 of our members. Thanks - your help was greatly appreciated.

Sherry and I were honored to serve as the Grand Marshall of the Titusville 2000 Christmas Parade. We rode in the parade in a 1929 Model A Ford. Even though I did not get to drive the Model A, neither did I get to "crank" the vehicle that Mr. Ford says made a lady out of Lizzy. We will always have fond memories of the honor bestowed upon us.

My thanks and appreciation to the officers and board members who served our club so well during the year 2000.

The newly elected officers for the year 2001 will be installed at the December 17 Christmas party. If you don't have your tickets for the party, be sure and get in touch with Sherry at 269-0779 or e-mail sherry@cfl.rr.com We look forward to seeing you at the party.

The community- and especially the amateur radio fraternity - has lost a dear friend, Robert "Andy" Anderson W4PRK. Our condolences to the family and many friends of our now silent key.

2001
OFFICERS
AND
BOARD MEMBER

President:	Bud Hughes, K4CWG
Vice President:	Ozzie Osband, N4SCY
Secretary/Treasurer:	Becky Lee, KF4HTB
Board Members:	Pat Renninger, KF4LTY
	John Renninger, KE4ZPA
	Anthony Hurkala, KG4CEB
	Sherry Hughes, KU4ZO

TARC CHRISTMAS PARTY
SUNDAY, DECEMBER 17 AT 6 PM
CATERED BY PUMPERNICKELS
JAYCEE BUILDING
$8.00 PER PERSON
BRING A $5.00 GIFT
TO BUY A TICKET, CONTACT
SHERRY AT 269-0779
DEADLINE FOR TICKETS IS
DECEMBER 12

HAPPY BIRTHDAY

DECEMBER BIRTHDAYS

DEC. 01 WB4ZUZ THERESA VALEK
DEC. 02 KF4NSX CHRIS MARSDEN
DEC. 02 NE4XT BILL DIMEO
DEC. 05 KG4GBA WALTER GOETSCHIUS
DEC. 06 K4DVW DICK STAUFFER
DEC 07 KU4ZO SHERRY HUGHES
DEC. 08 WN4YKC CHARLES FROST
DEC. 08 KE4MXB BONNIE FROST
DEC. 08 WN4YKC DON HATFIELD
DEC. 09 KC4VIO JOSE RAMOS
DEC. 10 W4AHM ALAN MARSDEN
DEC. 11 KU4NR CHUCK MANION
DEC. 11 KB4BHS GLENN LEE
DEC. 12 AF4N WES WHITLEY
DEC. 15 KF4IGO JUNE FOSTER
DEC. 16 WOLRC COFFEE COFFMAN
DEC. 18 KF4LTW TOM VICK
DEC. 19 W8OFR GENE HALL
DEC. 20 KF4QIP MICHAEL ALBRO
DEC. 20 KE4MWY DAN CHYCOTA
DEC. 20 KE4WWO MATTIE ADAMS
DEC. 21 KD4RLS WILLIAM MERRILL
DEC. 24 N4SCY OZZIE OSBAND
DEC. 25 W2STS JESS LEGRAND
DEC. 29 KE4EJ SANDY WHITLEY

INSTRUCTIONS FOR LIFE

1. Take into account that great love and great achievements involve great risks.
2. When you lose, don't lose the lesson.
3. Follow the three R's: respect for self; respect for others; responsibility for all your actions.
4. Remember that not getting what you want is sometimes a wonderful stroke of luck.
5. Learn the rules so you know how to break them properly.
6. Don't let a little dispute injure a great friendship.
7. When you realize you've made a mistake, take immediate steps to correct it.
8. Spend some time alone every day.
9. Open your arms to change, but don't let go of your values.
10. Remember that silence is sometimes the best answer.
11. Live a good, honorable life. Then when you get older and think back, you'll be able to enjoy it a second time.
12. A loving atmosphere in your home is the foundation for your life.
13. In disagreements with loved ones, deal only with the current situation. Do not bring up the past.
14. Share your knowledge. It's a way to achieve immortality.
15. Remember that the best relationship is one in which your love for each other exceeds your need for each other.
16. Judge your success by what you had to give up in order to get it.

WE WANT TO WISH EVERYONE IN THE TARC THE BEST OF HEALTH, A JOYOUS HOLIDAY SEASON AND A HAPPY AND PROSPEROUS NEW YEAR PAUL, WD4EBA AND CONNIE, KG4KBO BERNHARDT

THE DOCTOR IS IN
From QST 12/2000 *The Doctor is In*

QUESTION: I left my H-T exposed to sunlight for several hours. When I finally retrieved it, I was horrified to see that the LCD (liquid-crystal display) was completely black. However, after it cooled for a few minutes, the display returned to normal. What happened to the display, and how did it recover?

ANSWER: Liquid Crystals used in most LCDs are long, straight molecules that tend to tie up with each other, and anything else that's nearby. If you sandwich a film of liquid crystals between glass plates that are ridged like a miniature corrugated roof, the molecules will line up with the ridges. If you rotate one plate by 90 deg. The molecules near that plate will orient themselves at right angles to the molecules near the other plate. Between these plates, the rest of the crystal lattice forms a smooth one-quarter twist. This twist rotates the polarization of light by 90 deg. as it passes through the liquid crystal.

The liquid crystals used in displays are electrically unbalanced: one end of the molecule is slightly negatively charged, the other end slightly positively charged. So applying a small voltage across the glass plates causes all the molecules to "stand on end," and the liquid crystal loses its ability to twist the polarization of light. Switch off the voltage, and the lattice returns to its previous state.

To create a display, the glass plates are replaced with polarizing filters, also out of alignment by 90 deg, and a reflecting surface is put behind them. Incoming light is polarized by the first filter, twisted 90 deg by the liquid crystals, passes through the second filter, is reflected and reverses its journey. Apply a voltage, however, and the incoming light passes unchanged through the liquid crystal and so can't pass through the second polarizing filter. Consequently, the display goes black. By using segmented electrodes, letters, numerals and other shapes can be displayed.

The liquid crystal state is a phase between solid and liquid - cool it and it solidifies; heat it and it melts. Melted liquid crystals lose their ability to change the polarization of light, becoming ordinary liquids. That's when you see the display going completely black or blue. When cooled, it returns to the liquid crystal phase and reflects light again.

Don't make it a habit to leave your rig in the sunlight for prolonged periods of time. Repeated abuse can, over time, permanently alter the chemical properties of the display and render it inoperable.

HOLLINGSWORTH SUGGESTS STEPS TO BRIGHTER AMATEUR FUTURE

Looking "beyond enforcement." FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth, K4ZDH, has offered his ten personal suggestions to secure a sound future for Amateur Radio.

Speaking at the ARRL New England Division Convention August 26 in Boxboro, Massachusetts, Hollingsworth recapped the nearly two years since he took over Amateur Radio enforcement. Hollingsworth proclaimed the Amateur Service "fundamentally sound" and said complaints were on their way down.

Riley Hollingsworth's Abridged Ten Tips for a Brighter Ham Radio Future

1. Be proud of what you have. Let the public know what Amateur Radio is and why it's valuable.
2. Operate as if the whole world is listening. *It Is!*

3. Take nothing for granted. Bill Gates can't, and you can't either.
4. You're at a crossroads now. Seize the moment, and make this your finest hour.
5. Make sure that on your watch, Amateur Radio *never* becomes obsolete.
6. Teach the new licensee all you know. Think about the legacy you were given and your duty to pass it on.
7. Enjoy ham radio. Celebrate it. But realize it comes with responsibility. Every gift of lasting value always does.
8. Stay away from arrogant, negative operators who know all the answers.
9. Never allow Amateur Radio to become the audio version of *The Jerry Springer Show.*
10. I'm standing here talking about enforcement because the ARRL never gave up (trying to get the FCC to resume enforcement). Take care of the one voice you have.

FCC SET TO AUTHORIZE MURS

With no fanfare, the FCC was set to authorize a new Citizens Band Radio Service to be called the Multi-Use Radio System, or MURS.

The service, which came about as part of the biennial review of Part 90 of the FCC's rules, will deploy five former Private Land Mobile Radio Service VHF "color dot" channels for voice, data and imaging transmissions. The channels, 151.82, 151.88, 151.94, 154.57 and 154.60 - will be authorized for up to 2 W on an unlicensed basis under Part 95 of the FCC's rules.

The establishment of MURS was buried within a huge *Report and Order and Further Notice of Proposed Rule Making* released this summer as WT Docket 98-182 and PR Docket 92-235. The FCC said it will "revisit" the issue of allocating additional MURS channels "at a later date should additional support develop." The effective date to deploy MURS is pending completion of the FCC proceeding.

FCC APPROVES GPS-CAPABLE FRS TRANSCEIVERS

The FCC has granted, in part, a request from Garmin for a waiver of the Part 95 Family Radio Service rules [95.193(a) and 95.631(d) that will let the company manufacture and market for a one-year trial period FRS transceivers capable of transmitting location information derived from the GPS on FRS channels. The FCC says Garmin must include information in the instructions accompanying the units that the capability to transmit GPS-derived location information is provided "for personal and public safety purposes" only. Current FRS rules permit transmission only on F3E voice communications and CTCSS tones. The units must be designed to limit transmission of emission type F2D GPS-derived location information digital data bursts to not longer than one second and not more often than one burst every 10 seconds, actuated by the FRS user. The FCC declined to permit Garmin to manufacture units that can automatically poll other FRS units to determine their locations based on GPS-derived location data.

HAM GEAR DELIVERED TO ISS

The Amateur Radio on the International Space Station initial station equipment was delivered to the ISS in September. Shuttle *Atlantis* mission STS-106 also dropped off supplies that the ISS Expedition 1 crew will need this fall. After opening the station, the STS-106 team of astronauts and cosmonauts, which included three hams, unloaded the cargo - including the ham gear - from *Atlantis* and from a docked Russian *Progress* rocket and set the ISS up for its first crew.

The initial station gear now stowed aboard the ISS includes amateur VHF and UHF hand-held transceivers as well as a TNC for packet, a special headset and signal adapter module, and power adapters and interconnecting cables.

No Amateur Radio operation will take place from the ISS until the Expedition 1 crew of US astronaut Bill Shepherd, KD5GSL, and Russian Cosmonauts Sergei Krikalev, U5MIR, and Yuri Gaidzenko comes aboard in early November.

As part of the shuttle Atlantis mission, US astronaut Ed Lu, KC5WKJ, and Russian cosmonaut Yuri Malenchenko completed a more than six-hour space walk on September 11. Lu and Malenchenko attached nine power, data and communication cables to the Russian-built *Zvezda* service module *Zarya* control module.

Other amateurs aboard *Atlantis* included astronauts Dan Burbank, KC5ZSX, and Richard Mastracchio, KC5ZTE

The ARISS initial station gear will be installed temporarily aboard *Zarya* and use an existing antenna that's being adapted to support FM voice and packet on 2 meters. The gear will be re-installed in the *Zvezda* Service Module next year, and it will have both 2-meter and 70-cm capabilities. The gear has been certified to operate from the Russian sector of the ISS, where a Russian call sign DL0ISS has been issued, and US call signs for use aboard the ISS are pending. For more information visit the ARISS Web site, http://ariss.gsfc.nasa.gov/.

FOR THE FULL STORY ON THE HEADLINES BELOW, VISIT http://www.arrl.org/

ARRL's Radios On-Line Service Now Free to Members (Dec 5, 2000)
Listing a classified ad to buy and sell Amateur Radio-related equipment on the ARRL's *Radios On-Line* service now is free to League members. Listings will continue to be available for viewing by everyone, but now that *Radios On-Line* is an ARRL membership benefit, only League members may post ads.

Foundation for Amateur Radio Announces 2001-2002 Scholarships (Dec. 2, 2000)
The Foundation for Amateur Radio Inc., a non-profit organization with headquarters in Washington, DC, plans to administer 67 scholarships for the 2001-2002 academic year to assist radio amateurs. FAR invites applications from qualified amateurs.

The K7VVV Solar Update (Dec. 1, 2000)
This week we are back with the solar flux, sunspot and A index data from the past two weeks. Average solar flux rose almost 25 points two weeks ago from the previous week and then nearly another 23 points last week. Solar flux probably peaked around November 23 at 205.3. It has recently dropped below 190, and the predicted solar flux for Friday through Monday is 190, 185, 180 and 180.

FCC to Accept Internet Data to Identify Silent Keys (Nov 30, 2000) The FCC now is prepared to accept a printout from an Internet Web sight as sufficient proof of death to cancel a license in the Amateur Service. The FCC will continue to accept death certificates and published obituaries, and now can accept multiple cancellation requests.

ARISS International Partners to Meet (Nov. 30, 2000) Representatives of the international partners of the Amateur Radio on the International Space Station program will meet this weekend at Goddard Space Flight Center in Maryland. The three-day session will update current status of the ARISS program and attempt to map its future direction.

President Signs CB Enforcement Bill (Nov. 29, 2000) - President Bill Clinton has signed legislation that permits the enforcement of certain FCC Citizens Band regulations by state and local governments. Amateur Radio operators are exempt from the provisions of the law, now PL 106-521.

ABELL'S ANECDOTES

By Pike W4EPU

This being more or less the start of the holiday season it would seem appropriate to dwell on a subject with somewhat of a holiday theme. With that in mind, it occurred to me that one who is often taken very much for granted yet is a key figure and very popular with children everywhere is none other than Santa Claus himself.

As you know, Santa lives at the North Pole. Except for the month of December, most of the time he and his wife Merry (her maiden name was Merry Christmas) sit around the fireplace trying to keep warm. You see, Santa is retired but he does a lot of volunteer work. He has a group of volunteers, called Elves, who build and test literally tons of toys for eleven months of the year. About all Santa does is supervise the Elves, monitor their work and make sure the toys are safe for kids.

However, during the month of December, Santa is very busy working at his main volunteer job, making kids happy…He says the most difficult part of his job is sitting around in shopping malls taking orders from thousands of kids. Most kids want to sit on his lap while they are placing their orders. That can get quite embarrassing at times. Some kids get so excited that they have accidents right while they are sitting on his lap…

But Christmas night is the busiest night of the year for Santa. That is when he delivers toys to millions of kids all over the world, all in one night. In order to complete the job before morning he has to work his jolly belly off. Also, it would not be possible to go all of the places and make all of the stops for deliveries except for the fact that a time warp factor kicks in for him. It makes each millisecond last for hours when necessary. Although Santa appears to be traveling at the top reindeer speed of 27 miles per hour, he is actually moving at around half the speed of light. Sometimes he shows up before you have retired (The kids are already in bed asleep of course) and takes a ten minute break to join you in a glass of milk or hot spiced cider and a couple of cookies. In warp time that ten minutes happens in a flash.

So the next time you are in a shopping mall and pass by Santa, on a perch, probably with a kid on his lap, say THANKS to him with a smile and a salute. Ho-Ho-Ho! 73ses 88s

EPPLEY BRINGS JOY TO OTHERS

By Shari Medlock, Cocoa

>Thanks to *Florida Today* for the "happy" report of Bill Eppley. He plays his harmonica for others to make them smile. As a music teacher, I often have wonderful people coming to me with a burning desire to use their talents to become rich and famous.

>Because I also am a Bible teacher, I immediately begin to pray and to inspire these talented ones to "lose" themselves. I suggest that they will be much more useful on Earth if they sing or play for others. Obviously, Eppley has learned this pearl of wisdom. He refused to feel sorry for himself when his wife "went home." Instead, he began pouring of himself to make others happy.

>What we sow, we reap. He gives joy, he reaps joy. He gives love, he reaps love.

>Our talents are given to us for two reasons. First and foremost, we are to glorify our Creator with the gifts he has given. Second, we are to work and develop these talents and use them to enrich mankind.

>A talent turned inward to make oneself a "god" only destroys.

>God bless Bill Eppley. May God extend his life here in the flesh so he can continue to "play for smiles."

>My dear mother, Tessie Carroll Hair, now gone back home with God, also played the harmonica. Perhaps she is leaning over Heaven's balcony and cheering for Eppley.

TREASURERS REPORT
By Becky Lee, KF4HTB

Balance forward from 1999	$4333.03
Deposits Year to Date	4141.22
TOTAL INCOME	**$8474.25**
Expenditures	3922.47
BALANCE AS AT 11/31/00	**$4551.78**

CLUB OFFICERS

President: Bud Hughes, K4CWG. 267-3450
V.Pres: Ozzie Osband, N4SCY. 321-LIFTOFF
Sec/Treas: Becky Lee, KF4HTB, 267-9375

ELECTED BOARD MEMBERS

Ken Denman, KD4HNW. 269-5711
John Renninger, KE4ZPA. 267-9431
Grant Hahne, KF4IGK. 269-6484
Sherry Hughes, KU4ZO. 269-0779

REPEATER CUSTODIAN BOARD MEMBERS

Les Griner, K4SJC (146.91) 267-1565
Warren Murray, W4CEL (146.97) 638-5476
Dave McLean, WB4SIG (444.15) 267-6181
Larry Carr, WB9MFJ (Packet-Rose Node) 268-4114

CLUB INFORMATION

Meetings: Monthly on 4th Tuesday at 1900 hrs. at Jaycee Building

Newsletter Editors: KF4HTB Becky Lee
K4EOS Clyde Lee

Nets: **VIP**-Thursdays at 1000 hrs. 146.910
Friendship-Thursdays at 1830 hrs. 146.910
Mosquito-Wednesdays at 1900 hrs. 28.333
Traders-Fridays at 2000 hrs 146.910

NOVEMBER MINUTES
By Becky Lee KF4HTB

The meeting opened with the usual Pledge of Allegiance, moment of silence and introduction of members and guests.

Bud, K4CWG told the club of the passing of Ted Larabee, and the passing of Maynard Cheney's wife.

Most of the meeting was taken up with the election of officers and board members for 2001. Clara KE4YQL and Pike W4EPU presided over the election ceremony. The results of that election are:

President - Bud Hughes, K4CWG
Vice President - Ozzie Osband, N4SCY
Secretary/Treasurer - Becky Lee, KF4HTB
Board of Directors - Pat Renninger, KF4LTY
John Renninger, KE4ZPA
Anthony Hurkala, KG4CEB
Sherry Hughes, KU4ZO

Bud complimented Pike and Clara on their efficient handling of the election procedure.

He also mentioned the December 2 Christmas parade. The Jaycees are asking for the club's assistance. The parade starts out from the mall. Please come and help if you can. Be there about mid afternoon. Bud and Sherry are to be the Grand Marshalls of the parade.

Stephanie K4MVO talked about the Boat Parade. Club members are asked to be judges again this year and are invited to the party afterwards. She asked that anyone interested in being a judge, contact her.

Remember the Christmas party to be held on Sunday, December 17, at the Jaycee Building. Party will be catered by Pumpernickles.

TITUSVILLE AMATEUR RADIO CLUB
P. O. BOX 73
TITUSVILLE FL 32781-0073

MERRY CHRISTMAS!!!!!

MEMBERSHIP UPDATE
Total membership: 223 (151 regular, 53 family, 13 honorary, 6 other)

NEW MEMBERS:
KG4KBQ BEAU GRANTHAM
WA9EKC WILLIAM KNOPP
KA9IFK HELEN KNOPP
KG4KER NATHAN HARRIS
KF4VRG MARVIN THORPE

RENEWALS:
KE4BBP BUBBA STITT
KF4BKY JOE HUSSON
KF4CDK WILLIAM BLUM
AF4DP BERNARD FLANAGAN
KF4IGP JOANNA BLUM
KF4ECM JIM LATHROP
KF4MXF LINDA LATHROP
N9EZV KEN TENDICK
N9FAB LORRAINE TENDICK
KD4GPF JOE MYERS
WD8JLT BRIAN SONNENBERG
WA4JWU ROGER VERBLE
AE4NT ARNOLD THRASH
KC4VIO JOSE RAMOS
KC4VIN CAROL RAMOS
KF4ZOL JIMMY EDWARDS

HAMFESTS:

12/9	LAKE CITY
01/12-13	FT. MEYERS
01/27	ARCADIA
02/3-4	MIAMI
02/10-11	ORLANDO
03/3	NEW PORT RICHIE
03/10	SUNRISE
04/28-29	GAINESVILLE